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| APPLICATION NO.                                  | FILING DATE         | FIRST NAMED INVENTOR ATTO |                      | TORNEY DOCKET NO. |
|--|---------------------|---------------------------|----------------------|-------------------|
| 09/486,3   | 34 07/18/           | '00 DROUX                 | [Y]                  | PH-98/080         |
|  |                     | HM22/0605                 | EXAMINER             |                   |
| CONNOLLY BOVE LODGE & HUTZ<br>1220 MARKET STREET |                     |                           | BUI, F               |                   |
| P O BOX  |                     |                           | ART UNIT             | PAPER NUMBER      |
|  | 2207<br>ON DE 19899 | 7-2207                    | 1638<br>Date Mailed: |                   |
|  |                     |                           |                      | 06/05/01          |

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

### Office Action Summary

Application No. 09/486,334

Applica

Art Unit

Droux et al.



Examiner Phuong Bui 1638 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply** A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on \_\_\_\_\_ 2a) This action is FINAL. 2b) X This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) X Claim(s) 1-59 is/are pending in the application. 4a) Of the above, claim(s) \_\_\_\_\_\_ is/are withdrawn from consideratio 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) (Claim(s) is/are objected to. 8) X Claims 1-59 are subject to restriction and/or election requirement **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on \_\_\_\_\_\_ is/are objected to by the Examiner. 11) The proposed drawing correction filed on is: a) approved by disapproved. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a)  $\times$  All b)  $\square$  Some\* c)  $\square$  None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. X Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \*See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) 15) Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Paper No(s). 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) Notice of Informal Patent Application (PTO-152) 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_ 20) X Other: Sequence compliance

Application/Control Number: 09/486334

Art Unit: 1638

#### **DETAILED ACTION**

#### Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 33-59, drawn to a nucleic acid sequence, chimeric gene, vector, host organism, plant, seeds, and methods of transforming a host.

Group II, claim(s) 31 and 32, drawn to a fusion protein.

Group III, claim(s) 1-30, drawn to a method of increasing the production of cysteine, glutathione, methionine and sulphur derivatives in plants and plant cells.

For each of inventions I-III above, restriction to one of the following is also required under 35 USC 121 and 372. Therefore, in accordance with 37 CFR 1.499, election is required of one of inventions I-III and one of the following inventions (A)-(F).

- (A). Bacterial SAT.
- (B). SEQ ID No: 1 or SAT3.
- (C). SEQ ID No: 2 or SAT3'.
- (D). SEQ ID No: 3 or SAT1.

Page 2

Application/Control Number: 09/486334 Page 3

Art Unit: 1638

(E). SEQ ID No: 5 or SAT2.

- (F). SEQ ID No: 6 or SAT4.
- 2. The inventions listed as Groups I-III and (A) (F) do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: .
- 3. Groups (A)-(F) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions, represent structurally different polypeptides and the polynucleotides encoding them. Therefore, where structural identity is required, such as for hybridization or expression, the different sequences have different effects. Accordingly, each of Groups (A) (F) lack the same or corresponding special technical feature.
- 4. Groups I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed to divergent molecules having different functions and effects. The polynucleotides can be used in hybridization assays as well as in expression methods for producing the polypeptides. The polypeptides function as a serine acetyltransferases.

  Accordingly, each of Groups I and II lack the same or corresponding special technical feature.

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Application/Control Number: 09/486334

Art Unit: 1638

Groups I and III are related as product and second process of use. The inventions can be 5. shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the polynucleotide can be used in a materially different process such as one in which the polynucleotide is used to hybridize to DNA in a sample. Accordingly, each of Groups I and III lack the same or corresponding special technical feature.

Page 4

- Applicant is advised that the reply to this requirement to be complete must include an 6. election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the 7. inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).
- Papers relating to this application may be submitted to Technology Sector 1 by facsimile 8. transmission. Papers should be faxed to Crystal Mall 1, Art Unit 1638, using fax number (703) 308-4242. All Technology Sector 1 fax machines are available to receive transmissions 24 hrs/day, 7 days/wk. Please note that the faxing of such papers must conform with the Notice published in the Official Gazette, 1096 OG 30, (November 15, 1989).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Bui whose telephone number is (703) 305-1996. The Examiner can normally be reached Monday-Friday from 6:30 AM - 4:00 PM.

Application/Control Number: 09/486334

Page 5

Art Unit: 1638

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Paula Hutzell, can be reached at (703) 308-4310.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0196.

Phuong Bui Primary Examiner Group Art Unit 1638 June 1, 2001

PHUONG T. BUI PRIMARY EXAMINER

Pluong Bris

Application No. 09/486334

# NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

| 1. This application clearly fails to comply with the requirements of 37 CFR 1.821 - 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.   |
|---|
| 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).  |
| 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).  |
| 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached marked-up copy of the "Raw Sequence Listing." |
| 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).              |
| 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).   |
| 7. Other: ———   |
| Applicant must provide:   |
| An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"  |
| An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the   |
| A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)  |
| For questions regarding compliance with these requirements, please contact:   |
| For Rules Interpretation, call (703) 308-1123 For CRF submission help, call (703) 308-4212 For Patentln software help, call (703) 308-6856  |

Please return a copy of this notice with your response.